Vickers Laboratories Ltd - Safety Data Sheet

2017

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2 Revision date: 16 April 2021 Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 2017

Product Name POTASSIUM PERCHLORATE pure

CAS Number 7778-74-7

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula KClo =138.55

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd

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4hr) 11

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Oxidising solid, category 1 H271: May cause fire or explosion; strong oxidizer.

Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements May cause fire or explosion; strong oxidizer. Harmful if swallowed.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing

/ combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective

gloves / protective clothing / eye protection.

Section 3. Composition

3.1 Substances

Component	Component CAS No. EEC No. REACH No.		Conc w/w	CLP Classification (1272/2008/CE)	
Potassium perchlorate	7778-74-7		100%	Ox. Sol. 1,Acute Tox. 4 (O)	

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure. If material has reacted with an acid to form, chlorine, seek immediate medical assistance.

OBTAIN MEDIĈAL ATTENTION.

Ingestion If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if

available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL

ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Water spray.
Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with

finely divided combustible materials can react explosively.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus.

Only re-enter area with full protective clothing and breathing apparatus.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

	Component	CAS No	Concentration	Workplace Exposure Limits			
				Long Term (8hr TWA)		Short Term 15min period)	
I	Potassium perchlora	ate 7778-74-7	100%	-	-	15.0 ppm	-

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Hand Protection Wear gloves.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance White powder. Odour Odourless. Not applicable **Boiling Point** Not available Melting Point 525 °C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Not applicable Auto Ignition

Explosive Properties No.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable

Relative Density 2.5200

Water Solubility 20.8 g/L Slightly soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Aluminium, magnesium, charcoal, fluorine, sulphur and many combustible substances and reducing agents.

10.6 Hazardous Decomposition Decomposes to form flammable oxygen and highly toxic chlorine gas.

roducts

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Contact with the solid or dust will be extremely irritating to eyes and can cause chemical eye burns.

Skin Causes skin irritation.

LD50 Skin Not available

Ingestion Causes immediate irritation of the mouth, throat and gastro-intestinal tract. Harmful if swallowed.

LD50 Oral Not available

Inhalation Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract. Prolonged exposure to dust

or fume concentrations above the occupational exposure limits may produce symtoms similar to injestion.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB

essment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Do not dispose of as domestic waste.

Contaminated Packaging Wash out containers with water.

Section 14. Transport Information

14.1 UN Number 1489

14.2 Proper Shipping Name Potassium perchlorate

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 50
Tunnel Restriction Code E

14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

$15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Oxidising solid, category 1; Acute toxicity, category 4 (oral)

Signal word Danger

Hazard Pictograms





Hazard Statements H271, H302

May cause fire or explosion; strong oxidizer. Harmful if swallowed.

Precautionary Statements P210, P220, P221, P280

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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